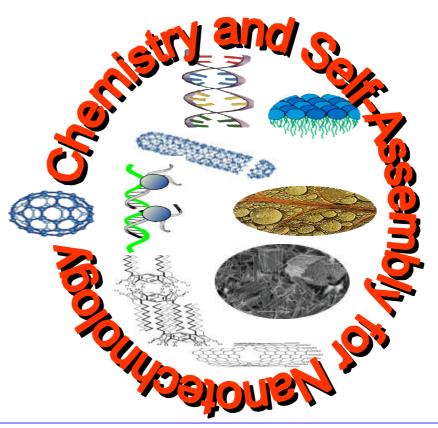


Chemistry and Self-Assembly for Nanotechnology 2004

February 19th-20th 2004 FUNDP, Namur, Belgium http://www.chimie.fundp.ac.be/lise/



You are kindly invited to the workshop 'Chemisty and Self-Assembly for Nanotechnology' which will be held at Namur University - FUNDP (Belgium) on February 19th-20th 2004.

About the Workshop

Nanoscience, the study of systems with nanometer dimensions, and nanotechnology are based on the ability to probe, manipulate and organise matter at the nanoscale. Achievements of nanotechnology are expected, among others, in manufacturing, electronics, healthcare, pharmaceuticals, chemical plants, transportation, sustainability, etc. New and/or improved properties and functions will be achieved through the control of matter atom-by-atom, molecule-by-molecule, and nanostructure-by-nanostructure. Nanotechnology includes also the integration of these nanoscale structures into larger material components, systems, and architecture, but within these larger scale systems the control and construction remains at the nanoscale. Chemistry, the science of matter transformation, and molecular self-assembly, which leads to preferred structures, is a particularly interesting and powerful approach towards fabrication of sufficient quantities of molecularly designed materials. The workshop includes plenary lectures and poster presentations, the purpose of which is to provide examples of trends of the ongoing research in nanoscience and nanotechnology by chemistry and self-assembly. It is also expected that it will contribute to increased awareness among young researchers of the importance and promises of a field that has been placed at the top of the list of emerging fields of research and development.



Scientific program

February 19th

- 8h00-8h45 : **Registration**
- 8h45 : Opening of the workshop by the Dean of the Science Faculty of FUNDP, *Prof. J. DELHALLE*

Session 1: Chairman: Prof. J. B.NAGY

- 9h00: Physics and chemistry of polymer-nanotube hybrids: from interactions to applications

 Prof. Jonathan N COLEMAN (Trinity College of Dublin, Ireland)
- 10h00 : From self-organizing conjugated π-systems to single molecule devices

Prof. Peter BAUERLE (ULM University, Germany)

• 11h00 : <u>Self-Assembled Monolayers for interfacial biochip design</u> *Dr. Wim LAUREYN (IMEC-Biosensors Group, Belgium)*

Session 2: Chairman: Prof. L. HEVESI

- 14h00 : Molecule-to-metal bonds: formation, applications

 Dr. Serge PALACIN (CEA, France)
- 15h00: Templating the spatial organization of macromolecules at the nanometer scale

 Prof. Alain JONAS (UCL, Belgium)
- 16h00 : Poster session with Wine, Cheese and Belgian Beers

February 20th

Annual meeting of the IUAP members of the WP7

• 8h00-8h45 : **Registration**

Session 1: Chairman: Prof. P. LAMBIN

- 9h00: Plenary Lecture
 Corrosion Protection of Aluminium Alloys by Thin Silane layers

 Prof. Jean VEREECKEN (VUB University, Belgium)
- 10h00 –12h00 Oral presentations

Session 2: Chairman: Prof. B.L. SU

- 14h00-16h00 Oral presentations
- 16h00-18h00 *Poster session*



Organisation

Conference Chairs

• Z. Mekhalif (LISE), J. B.Nagy (RMN), L. Hevesi (CMO)

Informations

Z. Mekhalif

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• F. Lallemand, F. Plumier Tel. +32-(0)81-72-54-38

Local Organisation

• D. Auguste, F. Lallemand, F. Plumier, F. Sinapi, L. Vast

Important Dates

Registration deadline	February 15 th 2004
Abstract Submission deadline	February 15 th 2004
Workshop	February 1 9 th -20 th 2004

Conference address

The workshop will take place in the Science Faculty of the University of Namur.

Chemistry Department, Auditorium CH3

Address of the main building:

Faculté des Sciences (FUNDP),

Rue Grafé, 2

B-5000 Namur

http://www.fundp.ac.be/acces/

Registration Fees

Regular registration: 50 euros

Student and IUAP members registration : 25 euros

The participation of the <u>IUAP members just to the second day workshop</u> is free of charge.

The registration fees include:

Admission to the two days Conference and Poster Session, Booklet of Abstracts, Coffee Breaks, Wine, cheese and beers reception.

Abstract submission and the final program: http://www.chimie.fundp.ac.be/lise/

The Registration fee can be paid by Bank Transfer to:

Facultés Universitaires Notre-Dame de la Paix Rue de Bruxelles 61, B-5000, Namur (Belgium)

Bank account: 250-0074027-04: code IBAN: BE10 2500 0740 2704 code Swift: GEBABEBB07A (Fortis Bank - Rue Godefroid 6, 5000 Namur) Please include the mention: "Workshop SAM 9584" and the Name of the

Participant